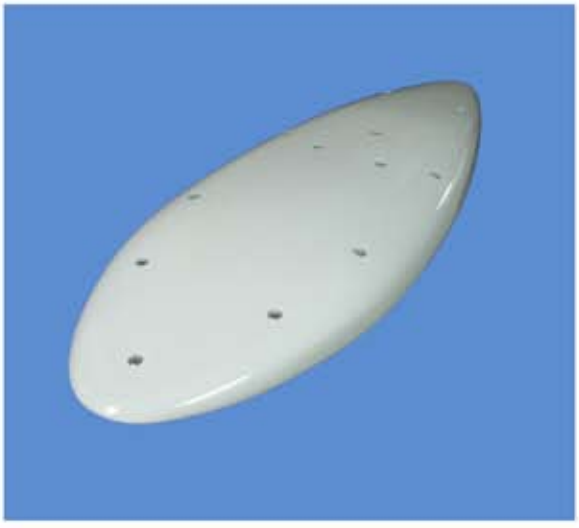
ADF S72-1712-12

MRKT ☐ ENV ENG ☐ QC ☐ ENG ☐

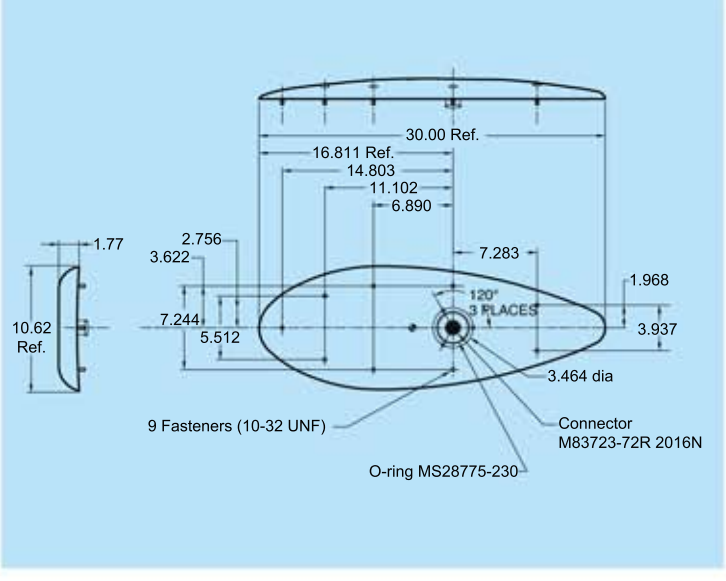


DESCRIPTION

S72-1712-12: The ADF ARINC 712 digital receiver uses a combined loop/sense antenna for operation with a digital ADF receiver incorporated within the radome. The ferrite loop is a unique design that provides repeated bearing accuracy. A test loop feature is provided on pins 15 and 16. Baseplate radius of 111.0 inches.

Federal & Military Specs: FAA TSO-C41c, ARINC-712, DO-160A, and MIL-E-5400.

SPECIFICATIONS	
ELECTRICAL	
Frequency	190 -1750 KHz
VSWR	190-1000 MHz: ≤ 1.3:1 1000-1750 MHz: ≤ 1.5:1
Output Impedance (±5%)	78 Ω balanced 1M Ω to ground min.
Power	± 12V, 150 mA (max.)
Radiation Pattern	Omnidirectional
Bearing Accuracy	Better than 0.4°
Effective Height (±10%)	Sense: 0.03 Meter Loop: 0.023 Meter (190 KHz) 0.038 Meter (57 KHz) 0.023 Meter (1750 KHz)
Loop Resonance Freq (±5%)	577 KHz
Loop Operating Q (±10%)	0.5 KHz
Loop Amplitude Tracking	0.25 dB
Loop Phase Characteristics	± 8° of (90-2 TAN-1 f/577)
Noise Output into 78 ohm	Sense: 3.3 nV / √Hz max. Loop: 8.0 nV / √Hz max.
MECHANICAL	
Weight	8.8 lbs.
Height	1.77 in.
Length	30.00 in.
Width	10.62 in.
Material	Thermoset Plastic
Finish	Skydrol Resistant Polyurethane Enamal
Connector	M83723-72R 2016N
ENVIRONMENTAL	
Temperature	-65°C (-85°F) to +90°C (+194°F)
Altitude	55,000 ft.



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